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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|----------------------------|----------------------|---------------------|------------------|
| 10/542,851 | 07/21/2005 | Futoshi Okuyama | IPE-058 | 8697 |
| 20374 KUBOVCIK & | 7590 10/10/200 KUROVCIK | 7 | EXAMINER | |
| SUITE 710 900 17TH STREET NW WASHINGTON, DC 20006 | | | NORRIS, JEREMY C | |
| | | | ART UNIT | PAPER NUMBER |
| | , | | 2841 | |
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| | | | MAIL DATE | DELIVERY MODE |
| | • | | 10/10/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| ÷ | | Application No. | Applicant(s) |
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| | | 10/542,851 | OKUYAMA ET AL. |
| | Office Action Summary | Examiner | Art Unit |
| | | Jeremy C. Norris | 2841 |
| eriod fo | The MAILING DATE of this communication ap or Reply | pears on the cover sheet w | ith the correspondence address |
| A SH WHIC - Exter after - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b). | NATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MON e. cause the application to become Al | CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133) |
| tatus | • | | |
| 1)⊠ | Responsive to communication(s) filed on 25 J | ulv 2006 | |
| | | s action is non-final. | |
| | Since this application is in condition for allowa | | ters, prosecution as to the merits is |
| | closed in accordance with the practice under | | |
| ispositi | ion of Claims | | |
| 5) 6) 7) | Claim(s) <u>1-21</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-21</u> are subject to restriction and/or | wn from consideration. | |
| pplicati | ion Papers | | |
| 10) | The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification. | cepted or b) objected to drawing(s) be held in abeyangtion is required if the drawing | nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d). |
| | under 35 U.S.C. § 119 | | |
| 12) [] a)[| Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list | ts have been received. ts have been received in A rity documents have been u (PCT Rule 17.2(a)). | application No received in this National Stage |
| uttachmen | | | |
|) | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date | Paper No(s | Summary (PTO-413) s)/Mail Date nformal Patent Application |

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1, 2, and 21, drawn to a printed circuit board, classified in class
 174, subclass 254.
- II. Claims 3-13, drawn to a method of making a printed circuit board, classified in class 29, subclass 830.
- III. Claims 14-20, drawn to an apparatus for making a printed circuit board, classified in class 29, subclass 745.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product of group I could be formed by a process which does not require the peel angle to be maintained in the range of more that 0° to 80° as claimed in the invention of group II.

Inventions III and I are related as apparatus and product made. The inventions in this relationship are distinct if either or both of the following can be shown: (1) that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a materially different product or (2) that the product

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as claimed can be made by another and materially different apparatus (MPEP § 806.05(g)). In this case the product of group I could be formed by an apparatus that keeps the reinforcing plate flat as opposed to being curved as claimed in the invention of group III.

Inventions II and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus of group III does not provide the step where the peel angle is being maintained in the range of more than 0° to 80° as claimed in the invention of group II.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

A telephone call was made to Keiko Kubovcik on 19 September 2007 to request an oral election to the above restriction requirement, but did not result in an election being made.

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 571-272-1932. The examiner can normally be reached on Monday - Friday, 9:30 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jéremy C. Norris Primary Examiner Art Unit 2841

JCSN